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PATENT  
PD-203072  
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IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicants: Robert Torres et al.  
Appl'n. No.: 10/684.914 Group: 2681  
Filed: August 9, 2001 Examiner: Unassigned  
For: "Method And System For Multicast In A Broadband Satellite System"

INFORMATION DISCLOSURE STATEMENT

(SUBMISSION AFTER FILING OF AN APPLICATION  
BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE  
OR CONCURRENTLY WITH A RULE 53(d) CPA APPLICATION)

Commissioner for Patents  
Alexandria, VA 22313-1450

March 21, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant hereby submits an Information  
Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the  
Office are listed on PTO-1449, attached hereto.

II. COPIES (check at least one box)

- a. X Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b.    Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

- a.    **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**  
A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows
- b. X **DOCUMENTS IN THE ENGLISH LANGUAGE**  
All of the patents, publications or other information are in the English language. No statement of relevancy is required.
- c.    **ENGLISH LANGUAGE SEARCH REPORT**  
An English language version of the search report or action which indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).
- d.    **OTHER**  
The following additional information is provided for the Examiner's consideration.

IV. FEES

X THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b):  
(check one box)

- a.    within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.
- b.    within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.
- c. X before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

V.    THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):  
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

- a.    No statement; therefore, a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).
- or
- b.    See the statement below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby states that

- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VII. PAYMENT OF FEES (check one box)

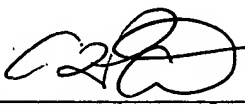
- ☐ A check in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p) is enclosed for the above-identified fee.
- ☐ Please charge Deposit Account No. 50-0383 in the amount required by 37 C.F.R. § 1.17(p) for the above-indicated fee. A triplicate copy of this paper is attached.
- ☒ No fee is required.

Appl. No.: 10/930,298

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-0383

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 50-0383 for any additional fees required under 37 CFR §1.16 or under §1.17; particularly, extension of time fees.

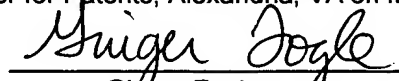
Respectfully submitted,


By:  3-21-05  
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Enclosures:    X    PTO-1449  
                  X    References  
                  X    International Search Report  
                  —    Fee  
                  —    Other:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, Alexandria, VA on March 21, 2005.

  
Ginger Fogle

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				ATTY DOCKET NO. <b>PD- 203072</b>		APPLICATION NO. <b>10/684,914</b>	
DATE SUBMITTED TO PTO: <b>March 21, 2005</b>				APPLICANTS <b>ROBERT TORRES ET AL.</b>		FILING DATE <b>October 14, 2003</b>	
				GROUP <b>2681</b>			

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

EXAMINER	DATE CONSIDERED
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)	
	XP-002302868, Architecture-Aware Low-Density Parity-Check Codes, Mohammad M. Mansour and Naresh Shanbhag, Coordinated Science Laboratory, ECE Department university of Illinois at Urbana-Champaign, Urbana, IL pages 57-60.
	XP-002260921, A Massively Scaleable Decoder Architecture for Low-Density Parity-Check Codes, Anand Selvarathinam, Gwan Choi, Krishna Narayanan, Abhiram Prabhakar, Encheol Kim, Department of Electrical Engineering, Texas A&M University, College Station, TX 77843-3259, pages 61-64.
	LDPC Code Construction With Flexible Hardware Implementation, Dale E. Hocesvar, DSP Solutions R & D Center, Texas Instruments, Dallas, TX, pages 2708-2712.
	XP-002312174, Draft ETSI EN 302 307 V1.1.1. (2004-06), European Standard (Telecommunications series), Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications, pages 1-74.
	Low-Density Parity-Check Codes for Digital Subscriber Lines, E. Eleftheriou and S. Ölcner, IBM Research, Zurich Research Laboratory, 8803 Rüschlikon, Switzerland, pages 1752-1757.
	XP-001177711, Capacity Approaching Codes, Iterative Decoding Algorithms, And Their Applications, The Renaissance of Gallager's Low-Density Parity-Check Codes, Tom Richardson, Flarion Technologies, Rüdiger Urbanke, EPFL, IEEE Communications Magazine August 2003, pages 126-131.
	XP-014003845, ETSI EN 301 790 V1.3.1. (2003-03), European Standard (Telecommunications Series), Digital Video Broadcasting (DVB); Interaction Channel for Satellite Distribution Systems, Pages 1-110.
	XP-002271230, Coded Modulation with Low Density Parity Check Codes, A Thesis by Ravi Narayanaswami, Submitted to the Office of Graduate Studies of Texas A&M University in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE, June 2001, pages 1-78.
	Lowering the Error-Rate Floors of Moderate-Length High-Rate Irregular LDPC Codes, Michael Yang and William E. Ryan, Department of Electrical and Computer Engineering, The University of Arizona, Tucson, AZ 85721, page 237

		Design of Efficiently Encodable Moderate-Length High-Rate Irregular LDPC Codes, Michael Yang, Yan Li and William E. Ryan, Department of Electrical and Computer Engineering, The University of Arizona, Box 210104, Tucson, AZ 85721, September 27, 2002, pages 1415-1424.
		Joint Cope and Decoder Design for Implementation-Oriented (3,k)-regular LDPC Codes, Tong Zhang and Keshab K. Parhi, Department of Electrical and Computer Engineering University of Minnesota, Minneapolis, MN 55455, USA pages 1232-1236.
		XP-002965294, Efficient Encoding of Low-Density Parity-Check Codes, Thomas J. Richardson and Rüdiger Urbanke, pages 638, 656.
		XP-000992693, Low Density Parity-Check Codes, R.G. Gallager, pages 21-28.

*\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.*